January 26 - February 1, 2001

The Terra spacecraft is currently operating nominally and all five instruments are working well in their Science Mode.

On January 25, at 02:49:13 zulu the SFE-A HDI Card appears to have experienced a Single Event Upset (SEU). The Terra spacecraft was verified to have been in the South Atlantic Anomaly (SAA) at that time (see Learning to Fly for more details). The card exhibited an error condition for one telemetry sample and appears to be an isolated event. One or two CADUs may have been lost as a result. No other problems were seen.

A Master Oscillator (MO) Frequency Adjust was performed on January 25 at 20:50 zulu.

One High Gain Antenna (HGA) Motor Drive Assembly (MDA) trip occurred on January 26 at 12:56:11 zulu during the back orbit with no resultant data loss.

On January 27, the Terra Flight Operations Team experienced an Absolute Time Command (ATC) load failure at the second Load Partition. A re-load was accomplished successfully. On January 28 the ATC load hung at the First Load Partition, but again was reloaded successfully. This issue is being investigated by the EOS Real-time Processing System (ERPS) team.

New Flight Dynamics System (FDS) software has been installed on the Terra operational system in the EOS Operations Center (EOC). This software suite completed its first full week of operational use this week. All Terrra data products generated on January 19 and thereafter have utilized the new FDS software provided in this delivery.

A presentation on ASTERπs Shortwave Infrared (SWIR) subsystem temperature issues and the status of the investigation by the GSFC/ASTER anomaly team is to be provided at the next ASTER Interface Meeting.

Deep Space Calibration maneuver target execution dates for early 2001 are under analysis by the Terra Project Scientist and Instrument Teams.